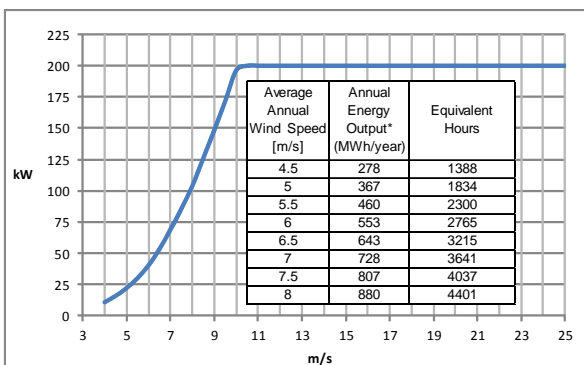


1	Rated power (kW)	200
	Rated wind speed (m/s)	10.5
	Cut in / out Speed (m/s)	3.5 / 20
	Wind direction	Downwind
	Wind class	IEC III
	Operating temperature range	-20 ° C to 45 ° C
2	ROTOR	Swivelling Single blade
	Material	Fibreglass / epoxy resin
	Turbined area (m ²) / Ratio m ² /kW	880 / 4.4
	Pitch	Variable
	Rotor Speed (rpm)	up to 56
	Max torque (kNm) / Thrust (kN)	45 / 38
	Turn direction	Clockwise (looking to downwind)
	Rotor height (m)	30
	Weight (kg)	3950
3	PENDULUM	
	Multiplication ratio	15.7
	Efficiency %	96
	Lubrication	Oil bath
	Generator	Squirrel-cage rotor
	Number of poles	8
	Voltage (V)	up to 500
	Frecuence (Hz)	50 / 60 Hz
	Proteccion class	IP 54
	Thermal class	F
Weight (kg)	4300	
4	Nacelle Weight (kg)	2000
5	Weight over tower (kg)	10250
6	Tower weight (kg)	12500
7	Total structure weight (kg)	22750
8	Electrical cabinet (kg)	1100
9	Sound power level dB(A)	74

ELECTRIC POWER STD CONDITIONS

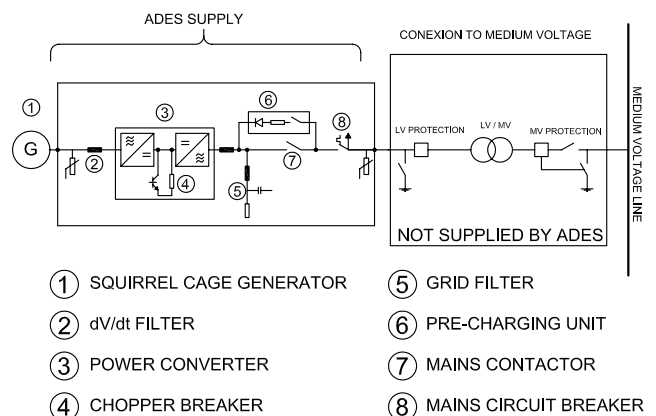
Cleand Blade - $\rho = 1,225 \text{ kg/m}^3$



Tolerance $\pm 3\%$

*Annual energy production estimates assumes a Rayleigh wind distribution, standard conditions, no transmission losses and 100% availability.

UNIFILAR SCHEME



- ① SQUIRREL CAGE GENERATOR
- ② dV/dt FILTER
- ③ POWER CONVERTER
- ④ CHOPPER BREAKER
- ⑤ GRID FILTER
- ⑥ PRE-CHARGING UNIT
- ⑦ MAINS CONTACTOR
- ⑧ MAINS CIRCUIT BREAKER

In comply with Operating Procedure for Voltage Dips and EMC